



PRELIMINARY

SOLID STATE DEVICES, INC

14849 Firestone Boulevard · La Mirada, CA 90638
Phone: (714) 670-SSDI (7734) · Fax: (714) 522-7424

SSR4045

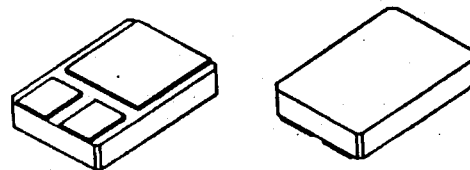
Designer's Data Sheet

FEATURES:

- Low Reverse Leakage
- Low Forward Voltage Drop
- Hermetically Sealed Power Surface Mount Package
- Guard Ring for Overvoltage protection
- Eutectic Die Attach
- 175°C Operating Temperature
- TX, TXV and Space Level Screening Available

40 AMP
45 VOLTS
SCHOTTKY
RECTIFIER

MILPACK



MAXIMUM RATINGS

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse and DC Blocking Voltage	VRRM VRWM VR	45	Volts
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, TA=25°C)	IO	40	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave Superimposed on IO, allow junction to reach equilibrium between pulses, TA=25°C)	IFSM	600	Amps
Operating and storage temperature	Top & Tstg	-65 to +175	°C
Maximum Thermal Resistance Junction to Case	RθJC	1.0	°C/W

NOTE: All specifications are subject to change without notification.
SSDI's for these devices should be reviewed by SSDI prior to release.

DATA SHEET#: RS0035 B

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SSR4045

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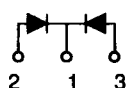
ELECTRICAL CHARACTERISTICS

CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
Instantaneous Forward Voltage Drop ($I_F = 10 \text{ A dc}$, $T_A = 25^\circ\text{C}$, 300 μs Pulse) ($I_F = 20 \text{ A dc}$, $T_A = 25^\circ\text{C}$, 300 μs Pulse) ($I_F = 40 \text{ A dc}$, $T_A = 25^\circ\text{C}$, 300 μs Pulse)	VF1	0.50 0.58 0.70	Vdc
Instantaneous Forward Voltage Drop ($I_F = 20 \text{ A dc}$, $T_A = -55^\circ\text{C}$, 300 μs Pulse)	VF2	0.65	Vdc
Reverse Leakage Current (Rated V_R , $T_A = 25^\circ\text{C}$, 300 μs pulse minimum)	IR1	400	μA
Reverse Leakage Current (Rated V_R , $T_A = 100^\circ\text{C}$, 300 μs pulse minimum)	IR2	30	mA
Junction Capacitance ($V_R = 10 \text{ Vdc}$, $T_A = 25^\circ\text{C}$, $f = 1 \text{ MHz}$)	CJ	1600	pf

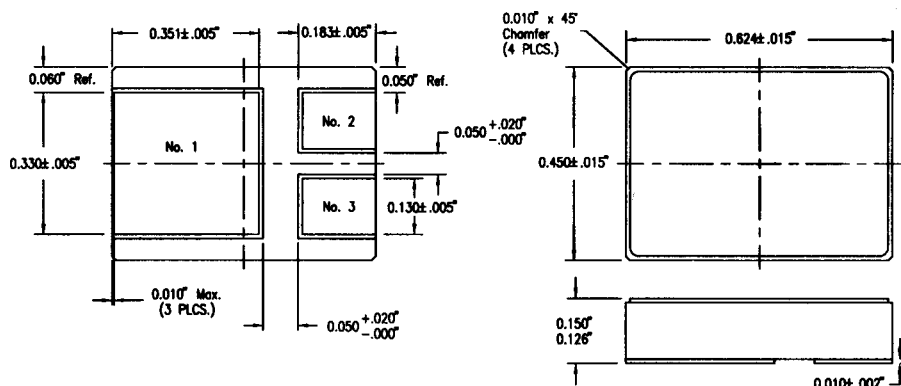
CASE OUTLINE: MILPACK

PIN 1: CATHODE
PIN 2: ANODE
PIN 3: ANODE

NOTE:
Pin 2 and 3 should be connected in application.



COMMON CATHODE



TYPICAL OPERATING CURVES

($T_A = 25^\circ\text{C}$ unless otherwise specified)

